Research & Scholarly Activity
2019 Annual Report
UCF Emergency Medicine Residency of Greater Orlando

Latha Ganti, MD & Amanda Webb, MD
January 2020
Active areas of investigation

- Acute stroke
  - Ethnic disparities
  - Factors that affect door-to-needle times
  - Prognosticators for good functional outcome

- Prehospital
  - Cardiac arrest
  - Sepsis
  - Field identification of LVOs

- Opiate Use Disorder
  - Survey of patient and provider attitudes and knowledge surrounding OUD
  - Clinician survey of buprenorphine prescribing knowledge

- ED Violence
  - Active shooter survey
2019 Stats - published works

- Original Research: 5
- Case Reports: 29
  - Books: 1

PubMed.gov
GCS 15: when mild TBI isn’t so mild

Authors
Latha Ganti, Tej Stead, Yasamin Daneshvar, Aakash N. Bodhit, Christa Pulvino, Sarah W. Ayala, Keith R. Peters

Open Access | Research article
First Online: 28 February 2019

2 Shares 1k Downloads
Original research

Large Vessel Occlusion Identification Through Prehospital Administration of Stroke Scales: A County-wide Emergency Medical Services Prospective Research Protocol

Tej G. Stead, Paul R. Banerjee, Latha Ganti
Gender Differences in Outcomes after Non-traumatic Intracerebral Hemorrhage

Alexandra Craen, Rohan Mangal, Tej G. Stead, Latha Ganti
E-cigarette Awareness among Young Adults: A Pilot Survey Study

Vibhav Kanyadan, Latha Ganti
Original Research

International Journal of Emergency Medicine

Original Research | Open Access | Published: 04 July 2019

Outcomes following clonidine ingestions in children: an analysis of poison control center data

Kendra Amico, Rolando Cabrera & Latha Ganti

International Journal of Emergency Medicine 12, Article number: 14 (2019) | Download Citation

434 Accesses | 4 Altmetric | Metrics
Knowledge, Awareness, and Attitudes Regarding Concussion Among Middle Schoolers

Thor S. Stead, Yasamin Deneshvar, Sarah Ayala, Latha Ganti
How Accurate Are the Stroke Severity Scales for Identifying Large Vessel Occlusions?

**TAKE-HOME MESSAGE**
The accuracy of the identified large vessel occlusion prediction instruments is highly variable, suggesting that systems using them will likely experience both under- and overtriage of large vessel occlusion stroke.

**METHODS**

**DATA SOURCES**
MEDLINE, EMBASE, the Cochrane Central Register of Controlled Trials, and conference abstracts were searched for studies published in English through October 2016.

**STUDY SELECTION**
Cross-sectional and cohort studies conducted among suspected or confirmed ischemic strokes were included if they reported diagnostic test characteristics (sensitivity, specificity, and positive and negative predictive value) of large vessel occlusion prediction instruments using vascular imaging (computed tomography angiography, magnetic resonance angiogram, or conventional angiography) as a reference standard.

**DATA EXTRACTION AND SYNTHESIS**
Two analysts independently extracted data with a standardized instrument. Two American Stroke Association Evidence Review Committee members independently assessed the risk of bias of each study, using the Quality

**EBEM Commentators**
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**Results**
Pooled sensitivity and specificity of out-of-hospital large vessel occlusion prediction instruments.

<table>
<thead>
<tr>
<th>Scale and Cutoff Score</th>
<th>No. of Studies</th>
<th>Study Population</th>
<th>Pooled Sensitivity (95% CI)</th>
<th>Pooled Specificity (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPS5S ≥2</td>
<td>2</td>
<td>EMS-suspected strokes</td>
<td>0.56 (0.50–0.63)</td>
<td>0.82 (0.73–0.89)</td>
</tr>
<tr>
<td>RACE ≥5</td>
<td>3</td>
<td>EMS-suspected strokes</td>
<td>0.69 (0.54–0.85)</td>
<td>0.81 (0.67–0.90)</td>
</tr>
<tr>
<td>RACE ≥5</td>
<td>2</td>
<td>Confirmed ischemic strokes</td>
<td>0.67 (0.62–0.73)</td>
<td>0.85 (0.63–0.88)</td>
</tr>
<tr>
<td>LAMS ≥4</td>
<td>3</td>
<td>Confirmed ischemic strokes</td>
<td>0.38 (0.30–0.48)</td>
<td>0.87 (0.49–0.98)</td>
</tr>
<tr>
<td>3i-5S ≥4</td>
<td>2</td>
<td>Confirmed ischemic strokes</td>
<td>0.19 (0.05–0.49)</td>
<td>0.97 (0.88–0.99)</td>
</tr>
</tbody>
</table>

CI: Confidence interval; CPS5S, Cincinnati Prehospital Stroke Severity Scale; EMS, emergency medical services; RACE, Rapid Arterial Occlusion Evaluation; LAMS, Los Angeles Motor Scale; 3i-5S, 3-item Stroke Scale.

**Editor’s Note:** This is a clinical synopsis, a regular feature of the Annals’ Systematic Review Snapshot (SRS) series. The source for this systematic review snapshot is: Smith EE, Kent DM, Bubara KR, et al; American Heart Association Stroke Council. Accuracy of prediction instruments for diagnosing large vessel occlusion in individuals with suspected stroke: a systematic review for the 2018 guidelines for the early management of patients with acute ischemic stroke. *Stroke.* 2018;49:e111-e122.

Original Research

Early On-Scene Management of Pediatric Out-of-Hospital Cardiac Arrest Can Result in Improved Likelihood for Neurologically-Intact Survival

Paul R. Banerjee\textsuperscript{a,b}, Latha Ganti\textsuperscript{b}, Paul E. Pepe\textsuperscript{a,c,\dagger}, Amminder Singh\textsuperscript{b}, Abhishek Roke\textsuperscript{b}, Raf A. Vittone\textsuperscript{a}

To read this article in full, please review your options for gaining access at the bottom of the page.
Medical students and metrics: seven techniques for a win-win situation

Tracy MacIntosh, David C. Lebowitz and Latha Ganti* 1

MacIntosh et al.
Do Antibiotics Improve Outcomes in Patients With Acute Asthma Exacerbations?

**TAKE-HOME MESSAGE**
Moderate-to low-quality evidence suggests that antibiotics may reduce symptoms and improve pulmonary function but do not improve other outcomes in patients with acute asthma exacerbations.

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Justin N. Carlson, MD, MS, and Alan Jones, MD, serve as editors of the SRS series.

**Results**

**Table 1. Summary characteristics of included studies.**

<table>
<thead>
<tr>
<th>Study</th>
<th>No. of Adults</th>
<th>No. of Children</th>
<th>Study Location</th>
<th>Study Country</th>
<th>Antibiotic Regimen (vs Placebo)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fonseca-Alten, 2006</td>
<td>None</td>
<td>43</td>
<td>ED</td>
<td>United States</td>
<td>Clarithromycin</td>
</tr>
<tr>
<td>Graham, 1992</td>
<td>60</td>
<td>None</td>
<td>Inpatient</td>
<td>United Kingdom</td>
<td>Amoxicillin</td>
</tr>
<tr>
<td>Johnston, 2006</td>
<td>278</td>
<td>None</td>
<td>Urgent care, ED, Inpatient</td>
<td>Multicenter, international</td>
<td>Telithromycin</td>
</tr>
<tr>
<td>Johnston, 2016</td>
<td>199</td>
<td>None</td>
<td>Inpatient</td>
<td>United Kingdom</td>
<td>Azithromycin</td>
</tr>
<tr>
<td>Koutoubia, 2012</td>
<td>None</td>
<td>40</td>
<td>Outpatient</td>
<td>Greece</td>
<td>Clarithromycin</td>
</tr>
<tr>
<td>Shapiro, 1974</td>
<td>None</td>
<td>50</td>
<td>Inpatient</td>
<td>United States</td>
<td>Hefaciocillin</td>
</tr>
</tbody>
</table>

**Table 2. Results of included trials.**

<table>
<thead>
<tr>
<th>Outcome</th>
<th>No. of Studies</th>
<th>No. of Patients</th>
<th>MD/OR/RR (95% CI)</th>
<th>Treatment Favored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptom score*</td>
<td>2</td>
<td>416</td>
<td>MD = 0.34 (-0.60 to -0.08)</td>
<td>favors antibiotics</td>
</tr>
<tr>
<td>Adverse events</td>
<td>3</td>
<td>506</td>
<td>OR = 0.99 (0.69 to 1.43)</td>
<td>No difference</td>
</tr>
<tr>
<td>Serious adverse events</td>
<td>3</td>
<td>502</td>
<td>RD = 0.00 (-0.03 to 0.03)</td>
<td>No difference</td>
</tr>
<tr>
<td>Peak expiratory flow, L/min</td>
<td>2</td>
<td>416</td>
<td>MD = 23.42 (5.23 to 41.60)</td>
<td>favors antibiotics</td>
</tr>
</tbody>
</table>

MD, Mean difference; OR, odds ratio; RD, risk difference; CI, confidence interval.

*Both studies used a modified diary card to assess symptoms at day 10 on a 7-point scale.
A 75-year-old woman with obesity presented to the emergency department after being struck by a motor vehicle while walking to the store. She was awake and reported that her knee “bent the wrong way” as the vehicle hit her. Trauma evaluation revealed no intrathoracic or intraabdominal injuries. She had severe pain in the right knee but had preserved distal pulses and sensation. Anteroposterior radiographs showed lateral dislocation of the right knee (Panel A). A feared complication of this injury is damage to the popliteal artery, which can result in ischemia and, in some cases, lead to amputation. Lateral

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Case By Case

December 06, 2019
Case Report

Serotonin Syndrome in the Emergency Department
Michelle Hernandez, Michael Walsh, Trilok Stead, Anines Quinones, Latha Ganti
Case By Case

December 04, 2019
Case Report

A Case of Disseminated Zoster in an Immunocompetent Patient

Emily Drone, Latha Ganti
Case By Case

Transthoracic Echocardiographic Findings of Stanford Type A Aortic Dissection: A Case Report

Alexandra Craen, Javier Rosario, Kendra Amico, Mihir Tak, Latha Ganti
Case By Case

Symptomatic May-Thurner Syndrome Without Deep Venous Thrombosis

Keegan S. McNally, Latha Ganti, Vanessa I. Diaz, Amanda L. Webb, George Alvarez
Case By Case

Globe Rupture and Protrusion of Intraocular Contents from Fall in Elderly Patient

Andrew Hanna, Rohan Mangal, Tej G. Stead, Latha Ganti
Case By Case

October 22, 2019
Case Report

Emergency Department Approach to Testicular Torsion: Two Illustrative Cases

Sherwin Z. Thomas, Vanessa Diaz, Javier Rosario, Vibhav Kanyadan, Latha Ganti
Case By Case

SIQ | October 13, 2019
Case Report

INFANTILE SEIZURES DUE TO HYponatREMIA

A Case of Hyponatremia-induced Seizures
in an Infant Secondary to Water Intoxication
from the Use of Almond Milk

Jessica Houck, Latha Ganti, Ariel E. Vera
Incidental Left Ventricular Aneurysm
Discovered after Chest Pain Following a
Motor Vehicle Collision

Michelle Hernandez, Sanjiv Gray, Vibhav Kanyadan, Javier Rosario, Latha Ganti
Case By Case

Radial Head Dislocation with Elbow Subluxation in an Adult

Amanda L. Webb, Mary C. Siome, Ayanna Walker, Latha Ganti
Diagnosing Appendicitis in Pregnancy Via Ultrasonography

Rohan Mangal, Tej G. Stead, Lalitha Ganti, Javier Rosario
Case By Case

July 19, 2019
Case Report

Electrical Cardioversion for Wide Complex Tachycardia

Abhishek Roka, Tej G. Stead, Sichartha R. Ramlatchan, Jose A. Rubero, Latha Ganti
Case By Case

Traumatic Multi-Finger Amputations After Trying to Rein in a Horse

Rohan Mangal, Tej G. Stead, Latna Ganti, Travis Jasper, Bryan C. Sleigh
Case By Case

Severe Hypothermia in the Sunshine State

Amninder Singh, Tej G. Stead, Rohan Mangal, Paul Banerjee, Latha Ganti
Case By Case

July 06, 2019
Case Report

Preseptal and Postseptal Orbital Cellulitis of Odontogenic Origin

Tej G. Stead, Armando Retana, Jessica Houck, Bryan C. Sleigh, Latha Ganti
Case By Case

June 02, 2019
Case Report

Laparoscopic Adjustable Gastric Band Slippage Presenting as Chest Pain

Laura K. Herndon, Tej G. Stead, Latha Ganti, Travan Jasper, David Lebowitz
Orbital Compartment Syndrome: How a Young Man’s Vision was Saved by the Timely Actions of an Emergency Medicine Physician

Jessica Houck, Rohan Mangal, Chrissy Vandillen, Latha Ganti, Bryan C. Sleigh
Spontaneous Resolution of Tension Pneumocephalus Following Blunt Head Trauma

Joshua Tsau, Rohan Mangal, Latha Ganti, Kendra Amico
Case By Case

May 30, 2019
Case Report

A Local Epidemic of Laced Heroin Causing Skin Necrosis
Jessica Houck, Latha Ganti

Over 290,000 article views, highest number in Cureus!
Traumatic Corneal Abrasion

Nicholas Fusco, Tej G. Stead, David Lebowitz, Latha Gantl
Case By Case

April 05, 2019
Case Report

Wellen's Syndrome: Is One Electrocardiogram Good and Plenty?

Markayle R. Schears, Bryan C. Sleigh, Latha Ganti
Case By Case

March 28, 2019
Case Report

The Role of Serial Ultrasounds In Diagnosing Suspected Deep Venous Thrombosis

Rolando Cabrera, Niharika Chimalakonda, Javier Rosario, Latha Ganti
Orbital floor fracture with periorbital haematoma

Alexandra Craen,¹ Latha Ganti²

DESCRIPTION
A 51-year-old woman with a medical history including previous left facial trauma with plates and screws placed who presented to the emergency department with right facial swelling and pain after she tripped down a step. She struck the right side of her face on tile flooring with no loss of consciousness. She denied neck pain, eye pain or foreign body sensation, vision changes, or numbness or tingling of the face. She denied any other injuries. She takes aspirin, but no other blood thinners. The examination was significant for a right periorbital haematoma (figure 1). Pupils were equal and reactive to light. She had symmetric visual acuity and extraocular movements were intact. No other acute injuries were identified on examination. A CT scan of the orbits showed a right orbital floor fracture.

Figure 2  CT of the orbital floor fracture (arrow).
Published books

- Step Up to Step 2 CK, 5th Ed., Wolter Kluwers
  [Ganti, Lebowitz, Rosario, Vera]
Research abstracts presented

- Comparison of the Vision, Aphasia, Neglect Test with the Los Angeles Motor Scale in Out-Of-Hospital Assessment for Large Vessel Strokes (Stead, Banerjee, Ganti)

- A High Los Angeles Motor Scale Score is an Effective Tool for Triaging Stroke Patients in the Out-Of-Hospital Setting (Stead, Banerjee, Ganti)

- Prehospital Double Sequential Defibrillation of Refractory Fibrillation Associated with Improved Outcomes (Chiang, Rosario, Ganti, Vera, Banerjee)
Research abstracts presented

- Gender Differences in Outcomes after Subarachnoid Hemorrhage
  [Craen, Ganti, Wallen, Banerjee]
- Predictors of death, discharge home and hospital length of stay after acute head injury
  [Houck, Wallen, Banerjee, Ganti]
- Prehospital pulse pressure as a determinant of stroke severity
  [Fusco, Ganti, Banerjee]
- Utility of the Los Angeles Motor Scale to Predict Outcomes after Acute Ischemic Stroke
  [Stead, Ganti, Banerjee]
- Ability of Prehospital Los Angeles Motor Score to predict hospital intervention for acute stroke
  [Stead, Ganti, Banerjee]
- Shock index and modified shock index as markers of prehospital sepsis
  [Kramer, Wallen, Latha Ganti, Paul Banerjee]
2019 AWARDS

- Educational Leadership Award
  - Dr. Latha Ganti

- Community Service Award
  - Dr. Michelle Wallen

- Innovation in Education Award
  - Dr. Ayanna Walker

- Early Educator Award
  - Dr. Tracy MacIntosh
Looking forward to 2020…

- Prehospital IVC evaluation of fluid responsiveness post-fluid bolus in sepsis
- Prehospital FAST exam in trauma patients who do and do not meet trauma alert criteria
- Prehospital subarachnoid hemorrhage protocol
- Barriers to opiate use disorder recovery
- Prognostic indicators in Non-STEMI
- Reversal of anticoagulation in ICH
Thank you!
Questions? Contact
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